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 85-091806/15 L02 MARI: 13.12.82 L(2-D4, 2-D15)
 MARIISK POLY *SU 1114-046-A
 13.12.82 SU-549238 (23.09.84) C04b-15/06
 (light-weight silicate bricks prodn. mix). - contains lime, dune sand,
 screened porous argillite sand, calcined argillite dust and water
 Dwg. No 0/0)

CR5-040021
 Light weight silicate bricks are made from lime, dune sand,
 porous argillite sand, additives and water. The bricks are
 stronger and more thermally insulating. If they are made from
 the following base (wt.-%): lime 5.89-8.78, dune sand 22.24-47.95,
 porous argillite sand (I) 29.0-45.75, calcined argillite dust (III) 3.69-
 11.27, remainder - water. (I) should have the following particle
 size analysis: size 2.5-5mm 4-8 wt.%, size 1.25-2.5 mm 20-31 wt.%,
 size 0.63-1.25 mm 28-31 wt.%, size 0.31-0.63 mm 20-28 wt.%, size
 0.14-0.31 mm 6-10 wt.%, and size 0.06-0.14 mm the remainder.
 Dust (III) consists of amorphosised black-brown, acid, aluminosilicate
 glass, mixed with non-amorphosised, red-brown
 luminescent clay granules containing Fe oxides, spinels, olivines
 and biotites etc. (III) reacts readily with $\text{Ca}(\text{OH})_2$ to give Ca
 hydrosilicate and aluminates, which prevent carbonate films
 forming on the brick surface. The bricks are pressed and
 correspond to USSR Spec. GOST 379-79.

ADVANTAGE - The strength of the patented bricks is
 increased by 30-70% (to 18 mpa); the coeff. of thermal

conductivity is reduced from 0.67-0.88 to 0.55. Bul. 35/23.9.84 14pp